

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 Levee Inspection Results

Reclamation District No. 2094 Walthall

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2094 Walthall

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Right	2.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/1/2019 - 5/1/2019			
DWR Inspector	Alberto De Leon			
Accompanied By	Brian Mizuno RD 2094			
	Wade Wylie DWR			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_RD2094_01_s_2013_10				
Comment Code					
Inspector Comment					
LMA has a flood response plan in the office. It is recommended for LMA and interested local volunteers to take a flood fight training class in order to refresh on skills and methods.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_RD2094_01_s_2013_11				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_RD2094_01_s_2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at LMA's office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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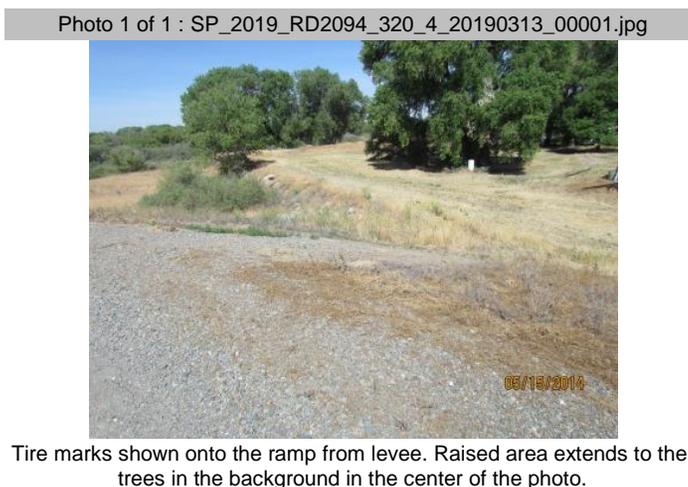
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.10	Rating **	M	Issue No.	4
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.771685 °	37.771685 °	
			-121.300239 °	-121.300239 °	
DWR ID	DWR_RD2094_01_s_2012_4				
Comment Code					
RA : Ramp					
Inspector Comment					
An access ramp has been built on the waterside and extends into the channel. This could potentially alter the channel capacity. This item was also noted in the USACE comments.					



LM Start	0.28	Rating **	M	Issue No.	9
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.769281 °	37.769281 °	
			-121.300832 °	-121.300832 °	
DWR ID	DWR_RD2094_01_s_2019_9				
Comment Code					
PI : Pipe					
Inspector Comment					
An irrigation pipe on the landside toe has created some erosion and needs to be backfilled and compacted before the flood season.					



LM Start	0.28	Rating **	A	Issue No.	7
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.769280 °	37.749548 °	
			-121.300827 °	-121.288901 °	
DWR ID	DWR_RD2094_01_s_2019_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.28	Rating **	A	Issue No.	6
LM End	2.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.769278 °	37.749548 °
				-121.300824 °	-121.288901 °
DWR ID	DWR_RD2094_01_s_2019_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP_2019_RD2094_320_6_20190514_00016.jpg



Typical view of vegetation on landside slope. (Spring 2019)

LM Start	0.65	Rating **	M	Issue No.	13
LM End	0.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.767514 °	37.767514 °
				-121.294926 °	-121.294926 °
DWR ID	23086				
Comment Code					
Inspector Comment					
FS_ID:21464 DS_ID:23086 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor condition and needs repair.- electric conduit on waterside. FIELD_STRUCT_DESC: 14-inch concrete encased steel irrigation discharge pipe and galvanized iron (GI) electrical conduit through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. Installed by USACE in 1962. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.66)]. FS Date: 9/10/2013					

Photo 1 of 3 : UCIP_SP_2019_21464_36405.jpg



WS view: gate valve in CMP riser (bottom) and pipe & pump (top) on piling structure in the channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.65	Rating **	M	Issue No.	13 (cont)
LM End	0.65	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.767514 °	37.767514 °	
			-121.294926 °	-121.294926 °	
DWR ID	23086				
Comment Code					
Inspector Comment					
FS_ID:21464 DS_ID:23086 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor condition and needs repair.- electric conduit on waterside. FIELD_STRUCT_DESC: 14-inch concrete encased steel irrigation discharge pipe and galvanized iron (GI) electrical conduit through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. Installed by USACE in 1962. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.66)]. FS Date: 9/10/2013					

Photo 2 of 3 : UCIP_SP_2019_21464_36404.jpg



WS view: pump on piling structure in the channel. Pipe (right- bottom) and conduit (bottom- left).

LM Start	0.65	Rating **	M	Issue No.	13 (cont)
LM End	0.65	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_21464_36403.jpg



LS view: exposed pipe, service pole, and concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

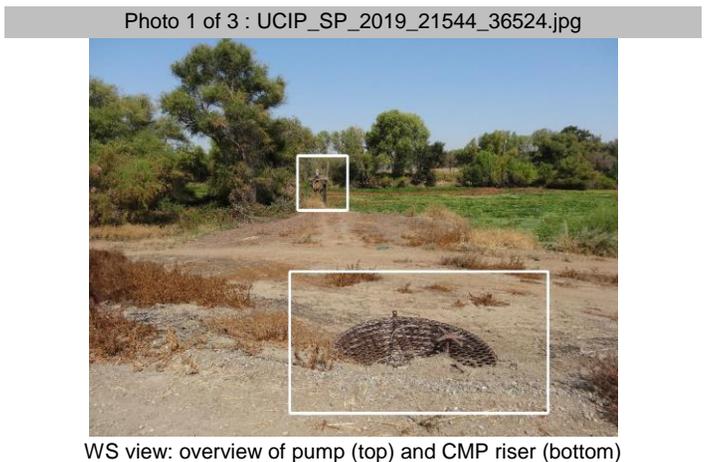
Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.91	Rating **	M	Issue No.	8
LM End	0.91	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.764169 °	37.764169 °	
			-121.293562 °	-121.293562 °	
DWR ID	DWR_RD2094_01_s_2017_8				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
Remove boat from the levee slope.					



LM Start	1.25	Rating **	M	Issue No.	14
LM End	1.25	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.760581 °	37.760581 °	
			-121.297373 °	-121.297373 °	
DWR ID	23087				
Comment Code					
Inspector Comment					
FS_ID:21544 DS_ID:23087 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP riser. CMP needs cleaning. FIELD_STRUCT_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.27)]. FS Date: 9/10/2013					



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.25	Rating **	M	Issue No.	14 (cont)
LM End	1.25	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.760581 °	37.760581 °	
			-121.297373 °	-121.297373 °	
DWR ID	23087				
Comment Code					
Inspector Comment					
FS_ID:21544 DS_ID:23087 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP riser. CMP needs cleaning. FIELD_STRUCT_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.27)]. FS Date: 9/10/2013					

Photo 2 of 3 : UCIP_SP_2019_21544_36523.jpg



WS view: pipe and pump on piling structure in the channel. Walkway in poor condition.

LM Start	1.25	Rating **	M	Issue No.	14 (cont)
LM End	1.25	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_21544_36522.jpg



WS view: damaged gate valve handle in CMP riser on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	2.25	Rating **	M	Issue No.	15 (cont)
LM End	2.25	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.752230 °	37.752230 °	
			-121.296408 °	-121.296408 °	
DWR ID	23088				
Comment Code					
Inspector Comment					
FS_ID:41726 DS_ID:23088 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - dense vegetation on WS.- working during field survey.- slide gate not found on WS. FIELD_STRUCT_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 6 feet below the crown. Two concrete cutoff walls. Slant pump mounted on a frame structure on the stream bank. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 2.30)]. FS Date: 9/10/2013					

Photo 3 of 3 : UCIP_SP_2019_41726_36500.jpg



WS view: inside view of CMP riser on levee shoulder. No slide gate found.

LM Start	2.45	Rating **	M	Issue No.	16
LM End	2.45	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.752308 °	37.752308 °	
			-121.293191 °	-121.293191 °	
DWR ID	23089				
Comment Code					
Inspector Comment					
FS_ID:21545 DS_ID:23089 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - no pipes found on either side of the levee.- concrete distribution box on LS. Soil erosion around distribution box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the landward toe FS Date: 9/10/2013					

Photo 1 of 3 : UCIP_SP_2019_21545_36529.jpg



WS view: no pipe found on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	05/01/2019 05/01/2019	Alberto De Leon

LM Start	2.45	Rating **	M	Issue No.	16 (cont)
LM End	2.45	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.752308°	37.752308°
				-121.293191°	-121.293191°
DWR ID	23089				
Comment Code					
Inspector Comment					
FS_ID:21545 DS_ID:23089 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - no pipes found on either side of the levee.- concrete distribution box on LS. Soil erosion around distrinition box. FIELD_STRUCT_DESC: Rectangular concrete distribution box on the landward toe FS Date: 9/10/2013					

Photo 2 of 3 : UCIP_SP_2019_21545_36528.jpg



Enter photo 2 description or comment here.

LM Start	2.45	Rating **	M	Issue No.	16 (cont)
LM End	2.45	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_21545_36527.jpg



LS view: erosion around a concrete standpipe on the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/1/2019 - 5/1/2019			
DWR Inspector	Alberto De Leon			
Accompanied By	Brian Mizuno RD 2094			
	Wade Wylie DWR			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2094 Walthall

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.45	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.06	Rating **	A	Issue No.	1
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.759668°	37.760587°	
			-121.300474°	-121.307271°	
DWR ID	DWR_RD2094_02_s_2019_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP_2019_RD2094_321_1_20190514_00001.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

LM Start	0.14	Rating **	M	Issue No.	2
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.760339°	37.760339°	
			-121.301741°	-121.301741°	
DWR ID	DWR_RD2094_02_s_2019_2				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The excavation into the waterside slope needs to be backfilled.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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